

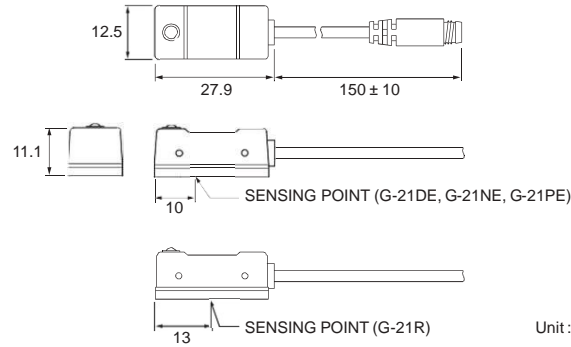
# G-21 SERIES

## Magnetic Sensor



### Dimensions

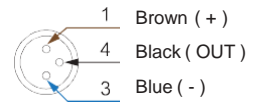
G-21R, G-21DE, G-21NE, G-21PE /  
G-21R-QD, G-21DE-QD, G-21NE-QD, G-21PE-QD



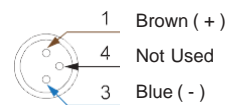
Unit : mm

### QD Pinout

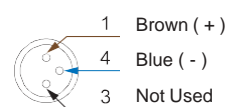
#### 3 wire QD wiring



#### 2 wire QD wiring



#### 2 wire EQD wiring



### Specifications

MODEL	G-21R	G-21DE	G-21NE	G-21PE
Connect Diagram				
Characteristics	2-Wire type		3-Wire type	
Wiring Method	2-Wire type		3-Wire type	
Switching Logic	SPST, Normally Open	-	Solid State Output, Normally Open	
Sensor Type	Reed Switch	-	NPN Current Sinking	PNP Current Sourcing
Operating Voltage	5 ~ 240 V DC / AC		5 ~ 30 V DC	
Switching Current	100 mA max.	50 mA max.	200 mA max.	
Contact Rating *1	10 W max.	1.5 W max.	6 W max.	
Current Consumption *2	-		6 mA @ 24 V DC max.	
Voltage Drop *2	3.5 V max.	3.7 V max.	0.5 V max.	
Leakage Current *2	-	0.1 mA (40 uA) max.	0.01 mA max.	
Indicator	Green LED	Red LED		Green LED
Lead Wire	Ø3.9PVC - 24AWG (0.22mm <sup>2</sup> ) - 2 cores	Ø4 PVC - 24AWG (0.22mm <sup>2</sup> ) - 2 cores	Ø4 PVC - 24 AWG ( 0.22 mm <sup>2</sup> ) - 3 cores	
Operating Frequency	200 Hz	1000 Hz max.		
Magnet Requirement *2, 3	80 Gauss	50 ~ 1000 Gauss		
Temperature Range	-10 ~ 70 °C			
Shock *4	30 G	50 G		50 G
Vibration *5	9 G			
Enclosure	IEC 60529 IP67			
Protection Circuit *6	1	3, 4		

#### NOTE

\*1 : WARNING : Never exceed rating ( Watt = Voltage × Amperage ).

Permanent damage to sensor will occur.

\*2 : It bases on conditions of voltage 24 V DC, ambient temp. 25 °C and 2 meters cable of sensor. Voltage drop increases in pace with cable length.

\*3 : Measuring standard target : Ø15.5 × Ø8 × 5t ( Anisotropy rubber magnet )

\*4 : Sin wave / X, Y, Z. 3 directions / 3 times each direction / 11 ms each time.

\*5 : Double amplitude 1.5 mm / 10 Hz ~ 55 Hz ~ 10 Hz ( Sweep 1 min ) / X, Y, Z. 3 directions / 1 hour each time.

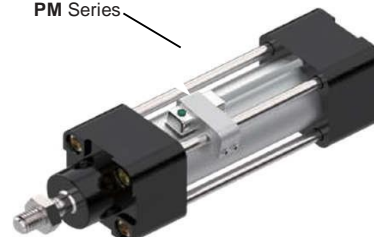
\*6 : 1 = None / 2 = Short-circuit / 3 = Power Source Reverse polarity / 4 = Surge Suppression

G-20 & G-21 series can be applied to many kind of cylinders

PN Series



PM Series



Gentle Automatic Solution Sdn Bhd

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